including at least one [two] semiconducting [layers, each layer] comprising [constituting essentially] an equipotential surface and also including solid insulation layer [disposed therebetween].

2 (Amended), line 1, delete "characterized in";

Line 2, delete "that" and insert --wherein--.

- 3. (Amended) A plant as claimed in [claims] claim 1 [or 2], [characterized in that] wherein the insulation is built up of a cable [(6)] intended for high voltage and comprising at least one [or more] current-carrying conductor[s (31)] surrounded by at least one semiconducting layer [(32, 34)] with intermediate insulating layer [(33)] of solid insulation.
- 4. (Amended) A plant as claimed in claim 3, [characterized in that] wherein an [the] innermost semiconducting layer [(32)] is at substantially the same potential as the conductor[(s) (31)].
- 5. (Amended) A plant as claimed in [either of claims] <u>claim</u> 3 [or 5], [characterized in that] <u>wherein the equipotential surface comprises at least one layer surrounding the insulating layer having semiconducting properties</u> [one of the outer semiconducting layers (34) is arranged to form essentially an equipotential surface surrounding the conductor(s) (31)].
- 6. (Amended) A plant as claimed in claim 5, [characterized in that] said at least one layer comprising an outer semiconducting layer [(34) is] connected to a selected potential.

The trip tent was the first of water to the trip with the trip tent to the trip tent to the trip tent to the t

Which which

7 (Amended), line 1, delete "characterized in";

Line 2, delete "that" and insert --wherein--.

Post In

- 8. (Amended) A plant as claimed in [any of claims 3-7, characterized in that] claim 3, wherein at least two of said layers have substantially the same coefficient of thermal expansion.
- 9. (Amended) A plant as claimed in [any of claims 3-5, characterized in that] claim 3, wherein the current carrying conductor comprises a plurality of strands, only a few of the strands being uninsulated from each other.
- 10. (Amended) A plant as claimed in [any of claims 1-9, characterized in that] claim 1, wherein the winding comprises [consists of] a cable comprising one or more current-carrying conductors [(2)], each conductor [consisting of] including a number of strands, an inner semiconducting layer [(3)] being arranged around each conductor, an insulating layer [(4)] of solid insulation being arranged around [each] the inner semiconducting layer [(3)] and an outer semiconducting layer [(5)] being arranged around [each] the insulating layer [(4)].

11 (Amended), line 1, delete "characterized in";

Line 2, delete "that" and insert --wherein--; delete "also".

Who A

12. (Amended) A plant as claimed in [any of the preceding claims, characterized in that] claim 1, wherein the machine has a magnetic circuit including a cooled [is arranged in a rotating electric machine, the] stator [(3) of which is cooled] operative at earth potential.

Prid

13. (Amended) A plant as claimed in [any of the preceding claims, characterized in that] claim 12, wherein the magnetic circuit of the electric machine comprises a stator winding located [placed] in a slot [(5)], said slot [(5) being designed as] having a number of cylindrical openings [(7)] running axially and radially outside each other, having substantially circular cross section and separated by narrow waist parts [(8)] between the cylindrical openings.

- 14 (Amended), line 1, delete "characterized in";
 - Line 2, delete "that" and insert --wherein--.
- ∑ 15 (Amended) , line 1, delete "characterized in";
 - Line 2, delete "that" and insert --wherein--.
- 16 (Amended), line 1, delete "characterized in";
 - Line 2, delete "that" and insert --wherein--.
- 17 (Amended), line 1, delete "characterized in";

Line 2, delete "that" and insert --wherein--.

18. (Amended) A plant as claimed in [claims] <u>claim</u> [3 and] 14, [characterized in that] <u>wherein</u> the cable [(6) constituting the stator winding] has a gradually decreasing insulation seen from the high-voltage side towards the Y-point.

19 (Amended), line 1, delete "characterized in";

Line 2, delete "that" and insert --wherein--.

20. (Amended) A plant as claimed in [claims] claim 13 [and 18], [characterized in that] wherein the circular cross section [(7)] of the substantially

125

Weg b

cylindrical slots [(5)] for the stator winding has decreasing radius seen from the yoke portion towards the rotor.

21. (Amended) A plant as claimed in [any of claims 12-20, characterized in that] claim 12, wherein the rotating part has an inertia and electromotive force.

22 (Amended), line 1, delete "characterized in";

Line 2, delete "that" and insert --wherein--.

23 (Amended), line 1, delete "characterized in";

Line 2, delete "that" and insert --wherein--.

24. (Amended) A plant as claimed in claim 23, [characterized in that] wherein the rotor [(2)] and the stator [(3)] are so dimensioned that at nominal voltage, nominal power factor and over-excited operation, the thermally based current limits of stator and rotor are exceeded approximately simultaneously.

25. (Amended) plant as claimed in claim 23, [characterized in that] wherein the rotor [(2)] and the stator [(3)] are so dimensioned that at nominal voltage, nominal power factor and over-excited operation, the thermally based stator current limit is exceeded before the thermally based rotor current limit has been exceeded.

26. (Amended) plant as claimed in [either of claims] claim 24 [or 25], [characterized in that is] wherein it has 100% overload capacity at nominal voltage, nominal power factor and at over-excited operation.

27. (Amended) A plant as claimed in claim 24 wherein [or claim 25, characterized in that] the rotor poles are pronounced.

A

The limber with limber with a constraint of the limber with limber

28 (Amended), line 1, before "claim" insert --in--; delete "characterized in that" and insert --wherein--.

- 28 Line 1 delete "characterized in that " and insert --wherein--.
- 29 (Amended), line 1, before "claim" insert --in--; delete "characterized in";

Line 2, delete "that" and insert --wherein--.

- 30. (Amended) A plant as claimed in [any of claims] claim 3[-29, characterized in that] wherein the cable[s (6)] with solid insulation intended for high voltage have a conductor area of about between 30 and 3000 mm² and have an outer cable diameter of about between 20 and 250 mm.
- 31. (Amended) A plant as claimed in claim 1, comprising [any of the preceding claims, characterized in that the] stator and rotor circuits [(3, 2) are provided with] and cooling means therefor in which the coolant is in liquid and/or gaseous form.
- 32. (Amended) plant as claimed in <u>claim 1</u>, <u>wherein</u> [any of the preceding claims characterized in that] the machine is arranged for connection to several different voltage levels.
- 33. (Amended) A plant as claimed in <u>claim 1</u>, <u>wherein</u> [any of claims1[-32, [characterized in that] the machine is connected to the power network without any step-up transformer.

R

Cond.

34. (Amended) A plant as claimed in <u>claim 1</u>, <u>wherein</u> [any of the preceding claims, characterized in that] the winding of the machine is arranged for self-regulating field control and lacks auxiliary means for control of the field.

35 (Amended), line 3, delete "characterized in that" and insert --wherein--.

37 (Amended), line 2, delete "characterized in";

Line 3, delete "that" and insert --wherein--.

Add the following new claims 39-50:

electric machine comprising a stator; a rotor and a winding, wherein said winding comprises a cable including at least one current-carrying conductor and a magnetically permeable, electric field confining cover surrounding the conductor, said cable forming at least one uninterrupted turn in the corresponding winding of said machine.

- 40. The synchronous compensator plant of claim 39, wherein the cover comprises an insulating layer surrounding the conductor and an outer layer surrounding the insulating layer, said outer layer having a conductivity sufficient to establish an equipotential surface around the conductor.
- 41. The synchronous compensator plant of claim 39, wherein the cover comprises an inner layer surrounding the conductor and being in electrical contact

therewith; an insulating layer surrounding the inner layer and an outer layer surrounding the insulating layer.

- 42. The synchronous compensator plant of claim 39, wherein the inner and outer layers have semiconducting properties.
- 43. The synchronous compensator plant of claim 39, wherein the cover is formed of a plurality of layers including an insulating layer and wherein said plurality of layers are substantially void free.
- 44. The synchronous compensator plant of claim 39, wherein the cover is in electrical contact with the conductor.
- 45. The synchronous compensator plant of claim 44, wherein the layers of the cover have substantially the same temperature coefficient of expansion.
- 46. The synchronous compensator plant of claim 39, wherein the machine is operable at 100% overload for two hours.
- 47. The synchronous compensator plant of claim 39, wherein the cable is operable free of sensible end winding loss.
- 48. The synchronous compensator plant of claim 39, wherein the winding is operable free of partial discharge and field control.
- 49. The synchronous compensator plant of claim 39, wherein the winding comprises multiple uninterrupted turns.

5upt

h Arril 11.11 out of out that the transfer out the transf